



SEQUENCE LISTING

RECEIVED

OCT 12 2001

TECH CENTER 1600/2900

<110> Buechler, Joe
Valkirs, Gunars
Gray, Jeff
Lonberg, Nils
Biosite Diagnostics, Inc.
GenPharm International

<120> Human Antibodies

<130> 020015-000110US

<140> 09/453,234

<141> 1999-12-01

<150> US 60/157,415

<151> 1999-10-02

<160> 112

<170> PatentIn Ver. 2.1

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<211> 43

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ctgcccaacc agccatggcc gaaattgtgc tcaccagtc tcc

43

<210> 6

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<223> Description of Artificial Sequence: Oligo 931

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46

<210> 7

<211> 46

<212> DNA

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<223> Description of Artificial Sequence: Oligo 932

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46

<210> 8

<211> 46

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligo 933

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46

<210> 9

<211> 46

<212> DNA

.<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligo 934

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46

<210> 10

<211> 46

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligo 935

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46

<210> 11

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<212> DNA

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<210> 12

<211> 46

<212> DNA

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<223> Description of Artificial Sequence: Oligo 937

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<210> 13

<211> 46

<212> DNA

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<223> Description of Artificial Sequence: Oligo 955

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<210> 14

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<212> DNA

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21

<210> 20

<211> 75

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<223> Description of Artificial Sequence: Oligo 864

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ttccagcttg gtccc 75

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<211> 69

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<223> Description of Artificial Sequence: Oligo 862

<400> 21

gtgatggtga tggatgatgga tcggagtacc aggttatcga gccctcgata ttgaggagac 60
ggtgactga 69

<210> 22

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer 5

<400> 22

gcaactgttg ggaaggg

17

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer 197

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20

<210> 24

<211> 46

<212> DNA

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<210> 25
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<210> 26
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<400> 26
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<210> 27
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<210> 28
 <211> 21
 <212> DNA
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 <223> Description of Artificial Sequence: Primer 885

<400> 28
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<210> 29
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<223> Description of Artificial Sequence: Primer 970

<400> 29

gtgataaact accgtaaagc ttatcgatga taagctgtca attagtgatg gtgatgggtga 60
tgagatttg 69

<210> 30

<211> 10

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<223> Example 17 Decapeptide

<400> 30

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
1 5 10

<210> 31

<211> 47

<212> DNA

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<223> Description of Artificial Sequence: Example 19
Primer A

<400> 31

tgcgtgccca accagccatg gccagtgcta aagaacttag atctcag 47

<210> 32

<211> 86

<212> DNA

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<223> Description of Artificial Sequence: Example 19
Primer B

<400> 32

gtgataaact accgcattaa agcttatcga tgataagctg tcaattagtg atgggtgatgg 60
tgatgtgaat tctcagccct cttcaa 86

<210> 33

<211> 21

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Primer C

<400> 33

gcaactctct actgtttctc c 21

<210> 34
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<223> Description of Artificial Sequence: Example 19
 Primer D

<400> 34
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18

<210> 35
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<220>

<223> M1-1L

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ctctcctgca gggccagtca ggggtgtagc agctacttag cctggtacca acagaaacct 120
ggccaggctc ccaggctcct catctatgat gcatccaaca gggccactgg catcccagcc 180
aggttcagtg gcagtgggtc tgggacagac ttcactctca ccatcagcag cctagagcct 240
gaagattttg cagtttatta ctgtcagcag cgtagcaact ggcctcggac gttcggccaa 300
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcga 360
tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 420
cccagagagg ccaaagtaca gtggaagggt gataacgccc tccaatcggg taactcccag 480
gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt cttatccata tgatgtgcca 660
gattatgcga gc                                     672

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<210> 36
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 36

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Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1               5               10               15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Gly Val Ser Ser Tyr
      20               25               30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
      35               40               45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
      50               55               60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
      65               70               75               80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Arg
      85               90               95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala

```


| 100 | | | | | 105 | | | | | 110 | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | |
| 115 | | | | | 120 | | | | | 125 | | | | | | |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala | |
| 130 | | | | | 135 | | | | | 140 | | | | | | |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser | |
| 165 | | | | | 170 | | | | | 175 | | | | | | |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | |
| 180 | | | | | 185 | | | | | 190 | | | | | | |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | |
| 195 | | | | | 200 | | | | | 205 | | | | | | |
| Phe | Asn | Arg | Gly | Glu | Ser | Tyr | Pro | Tyr | Asp | Val | Pro | Asp | Tyr | Ala | Ser | |
| 210 | | | | | 215 | | | | | 220 | | | | | | |

<210> 37
 <211> 678
 <212> DNA
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<220>
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| <400> 37 | | | | | | | | | | | | | | | | |
| gaa | ata | gtg | atg | acg | cag | tct | cca | gcc | acc | ctg | tct | ttg | tct | cca | ggg | 48 |
| Glu | Ile | Val | Met | Thr | Gln | Ser | Pro | Ala | Thr | Leu | Ser | Leu | Ser | Pro | Gly | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc agc | | | | | | | | | | | | | | | 96 | |
| Glu | Arg | Ala | Thr | Leu | Ser | Cys | Arg | Ala | Ser | Gln | Ser | Val | Ser | Ser | Ser | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc | | | | | | | | | | | | | | | 144 | |
| Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln | Ala | Pro | Arg | Leu | Leu | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt | | | | | | | | | | | | | | | 192 | |
| Ile | Tyr | Gly | Ala | Ser | Ser | Arg | Ala | Thr | Gly | Ile | Pro | Asp | Arg | Phe | Ser | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag | | | | | | | | | | | | | | | 240 | |
| Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Arg | Leu | Glu | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| cct gaa gat ttt gca gtg tat tac tgt cag cag tat ggt agc tca cct | | | | | | | | | | | | | | | 288 | |

| | | | | | | | | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|
| <400> 39 | | | | | | | | | | | | | | | | | |
| gaa | att | gtg | ttg | acg | cag | tct | cca | ggc | acc | ctg | tct | ttg | tct | cca | ggg | | 48 |
| Glu | Ile | Val | Leu | Thr | Gln | Ser | Pro | Gly | Thr | Leu | Ser | Leu | Ser | Pro | Gly | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| | | | | | | | | | | | | | | | | | |
| gaa | aga | gcc | acc | ctc | tcc | tgc | agg | gcc | agt | cag | agt | gtt | agc | agc | agc | | 96 |
| Glu | Arg | Ala | Thr | Leu | Ser | Cys | Arg | Ala | Ser | Gln | Ser | Val | Ser | Ser | Ser | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| | | | | | | | | | | | | | | | | | |
| tac | tta | gcc | tgg | tac | cag | cag | aaa | cct | ggc | cag | gct | ccc | agg | ctc | cac | | 144 |
| Tyr | Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln | Ala | Pro | Arg | Leu | His | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| | | | | | | | | | | | | | | | | | |
| atc | tat | ggg | gca | tcc | aga | agg | gcc | act | ggc | atc | cca | gac | agg | ttc | agt | | 192 |
| Ile | Tyr | Gly | Ala | Ser | Arg | Arg | Ala | Thr | Gly | Ile | Pro | Asp | Arg | Phe | Ser | | |
| | 50 | | | | | 55 | | | | 60 | | | | | | | |

ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag 240
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 cct gaa gat ttt gca gtg tat tac tgt cag cag ttt ggt agc tca ttc 288
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Phe Gly Ser Ser Phe
 85 90 95
 act ttc ggc cct ggg acc aaa gtg gat atc aaa cga act gtg gct gca 336
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110
 cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac 576
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc 624
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc 672
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 40
 <211> 224
 <212> PRT
 <213> Homo sapiens
 <223> M1-4L

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 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu His
 35 40 45
 Ile Tyr Gly Ala Ser Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Phe Gly Ser Ser Phe
 85 90 95
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 41
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 1 5 10 15
 gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc agc 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30
 tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc 144
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt 192
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

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'ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag 240
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

cct gaa gat ttt gca gtg tat tac tgt cag cag tat ggt agc tca cct 288
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

ata ttc act ttc ggc cct ggg acc aaa gtg gat atc aaa cga act gtg 336
Ile Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val
100 105 110

gct gca cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa 384
Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
115 120 125

tct gga act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga 432
Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
130 135 140

gag gcc aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac 480
Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
145 150 155 160

tcc cag gag agt gtc aca gag cag gac agc aag gac agc acc tac agc 528
Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
165 170 175

ctc agc agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa 576
Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
180 185 190

gtc tac gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca 624
Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
195 200 205

aag agc ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat 672
Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
210 215 220

gcg agc
Ala Ser
225

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<212> PRT
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

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Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 Ile Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val
 100 105 110
 Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 115 120 125
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190
 Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 195 200 205
 Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220
 Ala Ser
 225

<210> 43
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 Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc acc 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Thr
 20 25 30
 tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc 144
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu

| 35 | 40 | 45 | |
|---|----|----|-----|
| atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser 50 55 60 | | | 192 |
| ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 65 70 75 80 | | | 240 |
| cct gaa gat ttt gca gtg tat tac tgt cag cag tat gtt agc tca ttc Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Val Ser Ser Phe 85 90 95 | | | 288 |
| act ttc ggc cct ggg acc aaa gtg gat atc aaa cga act gtg gct gca Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala 100 105 110 | | | 336 |
| cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly 115 120 125 | | | 384 |
| act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala 130 135 140 | | | 432 |
| aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln 145 150 155 160 | | | 480 |
| gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser 165 170 175 | | | 528 |
| agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr 180 185 190 | | | 576 |
| gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser 195 200 205 | | | 624 |
| ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc Phe Asn Arg Gly Glu Ser Tyr Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser 210 215 220 | | | 672 |

<210> 44

<211> 224

<212> PRT

<213> Homo sapiens

<223> M1-8L

<400> 44

| |
|---|
| Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly |
| 1 5 10 15 |

| |
|---|
| Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Thr |
| 20 25 30 |

| |
|---|
| Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu |
|---|

| 35 | 40 | 45 |
|--|----|----|
| Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser 50 55 60 | | |
| Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu 65 70 75 80 | | |
| Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Val Ser Ser Phe 85 90 95 | | |
| Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala 100 105 110 | | |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly 115 120 125 | | |
| Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala 130 135 140 | | |
| Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln 145 150 155 160 | | |
| Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser 165 170 175 | | |
| Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr 180 185 190 | | |
| Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser 195 200 205 | | |
| Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser 210 215 220 | | |

<210> 45
 <211> 672
 <212> DNA
 <213> Homo sapiens

<220>
 <223> M1-10L

<220>
 <221> CDS
 <222> (1) .. (672)

| | |
|---|-----|
| <400> 45 | |
| gat gtt gtg atg aca cag tct cca gcc acc ctg tct ttg tct cca ggg Asp Val Val Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly 1 5 10 15 | 48 |
| gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc tac Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr 20 25 30 | 96 |
| tta gcc tgg tac caa cag aaa cct ggc cag gct ccc agg ctc ctc atc Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile 35 40 45 | 144 |

tat gat gca tcc aac agg gcc act ggc atc cca gcc agg ttc agt ggc 192
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

agt ggg tct ggg aca gac ttc act ctc acc atc agc agc cta gag cct 240
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80

gaa gat ttt gca gtt tat tac tgt cag cag cgt agc aac tgg cct ccc 288
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
 85 90 95

act ttc ggc gga ggg acc aag gtg gag atc aaa cga act gtg gct gca 336
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac 576
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc 624
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc 672
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 46

<211> 224

<212> PRT

<213> Homo sapiens

<223> M1-10L

<400> 46

Asp Val Val Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Pro
 85 90 95
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 47
 <211> 672
 <212> DNA
 <213> Homo sapiens

<220>
 <223> M1-21L

<220>
 <221> CDS
 <222> (1)..(672)

<400> 47
 gcc atc cgg atg acc cag tct cca tcc ttc ctg tct gca tct gta gga 48
 Ala Ile Arg Met Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 gac aga gtc acc atc act tgc cgg gca agt cag agc att agc agc tat 96
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 tta aat tgg tat cag cag aaa cca ggg aaa gcc cct aag ctc ctg atc 144
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agt gtc 192
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Val
 50 55 60
 agt gga tct ggg aca gat ctc act ctc acc atc agc agt ctg caa cct 240
 Ser Gly Ser Gly Thr Asp Leu Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 gaa gat ttt gca act tat tac tgt cag tgt ggt tac agt aca cca ttc 288
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Cys Gly Tyr Ser Thr Pro Phe
 85 90 95
 act ttc ggc cct ggg acc aaa gtg gat atc aaa cga act gtg gct gca 336
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110
 cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac 576
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc 624
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc 672
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 48
 <211> 224
 <212> PRT
 <213> Homo sapiens
 <223> M1-21L

<400> 48
 Ala Ile Arg Met Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Val
 50 55 60
 Ser Gly Ser Gly Thr Asp Leu Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Cys Gly Tyr Ser Thr Pro Phe
 85 90 95
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 49
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <223> M1-23L

<220>
 <221> CDS
 <222> (1)..(678)

<400> 49
 gaa att gtg ttg acg cag tct cca ggc acc ctg tct ttg tct cca ggg 48
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc agc 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30
 tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc 144
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt 192

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ile | Tyr | Gly | Ala | Ser | Ser | Arg | Ala | Thr | Gly | Ile | Pro | Asp | Arg | Phe | Ser | | |
| 50 | | | | | | 55 | | | | | 60 | | | | | | |
| ggc | agt | ggg | tct | ggg | aca | gac | ttc | act | ctc | acc | atc | agc | aga | ctg | gag | 240 | |
| Gly | Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Arg | Leu | Glu | | |
| 65 | | | | | 70 | | | | 75 | | | | | | 80 | | |
| cct | gaa | gat | ttt | gca | gtg | tat | tac | tgt | cag | cag | tat | ggg | agc | tca | cct | 288 | |
| Pro | Glu | Asp | Phe | Ala | Val | Tyr | Tyr | Cys | Gln | Gln | Tyr | Gly | Ser | Ser | Pro | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| ccg | tac | act | ttt | ggc | cag | ggg | acc | aag | ctg | gag | atc | aaa | cga | act | gtg | 336 | |
| Pro | Tyr | Thr | Phe | Gly | Gln | Gly | Thr | Lys | Leu | Glu | Ile | Lys | Arg | Thr | Val | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| gct | gca | cca | tct | gtc | ttc | atc | ttc | ccg | cca | tct | gat | gag | cag | ttg | aaa | 384 | |
| Ala | Ala | Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | | |
| | | | 115 | | | | 120 | | | | | 125 | | | | | |
| tct | gga | act | gcc | tct | gtt | gtg | tgc | ctg | ctg | aat | aac | ttc | tat | ccc | aga | 432 | |
| Ser | Gly | Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | | |
| | 130 | | | | | 135 | | | | | | 140 | | | | | |
| gag | gcc | aaa | gta | cag | tgg | agg | gtg | gat | aac | gcc | ctc | caa | tcg | ggg | aac | 480 | |
| Glu | Ala | Lys | Val | Gln | Trp | Arg | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| tcc | cag | gag | agt | gtc | aca | gag | cag | gac | agc | aag | gac | agc | acc | tac | agc | 528 | |
| Ser | Gln | Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| ctc | agc | agc | acc | ctg | acg | ctg | agc | aaa | gca | gac | tac | gag | aaa | cac | aaa | 576 | |
| Leu | Ser | Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| gtc | tac | gcc | tgc | gaa | gtc | acc | cat | cag | ggc | ctg | agc | tcg | ccc | gtc | aca | 624 | |
| Val | Tyr | Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | | |
| | | | 195 | | | | 200 | | | | | | 205 | | | | |
| aag | agc | ttc | aac | agg | gga | gag | tct | tat | cca | tat | gat | gtg | cca | gat | tat | 672 | |
| Lys | Ser | Phe | Asn | Arg | Gly | Glu | Ser | Tyr | Pro | Tyr | Asp | Val | Pro | Asp | Tyr | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| gcg | agc | | | | | | | | | | | | | | | 678 | |
| Ala | Ser | | | | | | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | | | |

<210> 50
 <211> 226
 <212> PRT
 <213> Homo sapiens
 <223> M1-23L

<400> 50
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val
 100 105 110
 Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 115 120 125
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140
 Glu Ala Lys Val Gln Trp Arg Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190
 Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 195 200 205
 Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220
 Ala Ser
 225

<210> 51

<211> 672

<212> DNA

<213> Homo sapiens

<220>

<223> M1-25L

<400> 51

gaaattgtgt tgacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc 60
 ctctcctgca gggccagtca gagggttagc agcagctact tagcctggta ccagcagaaa 120
 cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 180
 aacaggttca gtggcagtggt gtctgggaca gacttcactc tcaccatcag cagactggag 240
 cctgaagatt ttgcagtgtt ttactgtcag cagtatggta gctcattcac tttcggccct 300
 gggaccaaag tggatatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcga 360
 tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 420
 cccagagagg ccaaagtaca gtggaagggt gataacgccc tccaatcggg taactcccag 480
 gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
 ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
 ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt cttatccata tgatgtgcc 660

gattatgcga gc

672

<210> 52
 <211> 224
 <212> PRT
 <213> Homo sapiens

<220>
 <223> M1-25L

<400> 52
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asn Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Phe
 85 90 95
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Asn
 210 215 220

<210> 53
 <211> 675
 <212> DNA

<213> Homo sapiens

<220>

<223> M1-1H

<220>

<221> CDS

<222> (1)..(675)

<400> 53

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| cag gtc cag ctg gtc gag tct ggg gga ggc gtc gtc cag cct ggg aag | 48 |
| Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Lys | |
| 1 5 10 15 | |
| tcc ctg aga ctc tcc tgt gca gcg tct gaa ttc acc atc agt tac tat | 96 |
| Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Ile Ser Tyr Tyr | |
| 20 25 30 | |
| ggc atg cac tgg gtc cgc cag gtt cca ggc aag ggg ctg gag tgg gtg | 144 |
| Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val | |
| 35 40 45 | |
| gca gct gtc tgg tat gat gaa agt act aca tat tct cca gac tcc gtg | 192 |
| Ala Ala Val Trp Tyr Asp Glu Ser Thr Thr Tyr Ser Pro Asp Ser Val | |
| 50 55 60 | |
| aag ggc cga ttc acc atc tcc aga gac gat tcc aag aac acg ctg tat | 240 |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr | |
| 65 70 75 80 | |
| ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt | 288 |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys | |
| 85 90 95 | |
| gcg aga gat agg gtg ggc ctc ttt gac tac tgg ggc cag gga acc ctg | 336 |
| Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu | |
| 100 105 110 | |
| gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg | 384 |
| Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu | |
| 115 120 125 | |
| gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc | 432 |
| Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys | |
| 130 135 140 | |
| ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca | 480 |
| Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser | |
| 145 150 155 160 | |
| ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc | 528 |
| Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser | |
| 165 170 175 | |
| tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc | 576 |
| Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser | |
| 180 185 190 | |
| ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac | 624 |
| Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn | |
| 195 200 205 | |

acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat 672
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

cac 675
 His
 225

<210> 54
 <211> 225
 <212> PRT
 <213> Homo sapiens
 <223> M1-1H

<400> 54
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Lys
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Ile Ser Tyr Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ala Val Trp Tyr Asp Glu Ser Thr Thr Tyr Ser Pro Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His
 225

<210> 55
 <211> 677
 <212> DNA
 <213> Homo sapiens

<220>
 <223> M1-3H

<220>
 <221> CDS
 <222> (3)..(677)

<400> 55

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     1             5             10             15

agg tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt tac      95
Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr
           20             25             30

tat ggc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg      143
Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
           35             40             45

gtg aca ctt ata acc tat gat gga gat aat aaa tac tat gca gac tcc      191
Val Thr Leu Ile Thr Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser
           50             55             60

gtg aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ctg      239
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
           65             70             75

tat ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac      287
Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
           80             85             90             95

tgt gcg aga gac ggg atc ggg tac ttt gac tat tgg ggc cag gga acc      335
Cys Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
           100             105             110

ctg gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc      383
Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
           115             120             125

ctg gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc      431
Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly
           130             135             140

tgc ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac      479
Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
           145             150             155

tca ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag      527
Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
           160             165             170             175

tcc tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc      575

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Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
 180 185 190
 agc ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc 623
 Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser
 195 200 205
 aac acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac 671
 Asn Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His
 210 215 220
 cat cac 677
 His His
 225

<210> 56
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 <212> PRT
 <213> Homo sapiens
 <223> M1-3H

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 Asp Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Thr Leu Ile Thr Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His
 225

<210> 57
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 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 <222> (1)..(675)

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 tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt tac tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 ggc atg cac tgg gtc cgc cag gtt cca ggc aag ggg ctg gag tgg gtg 144
 Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 gca gct gtc tgg tat gat gga agt act aca tat tct cca gac tcc gtg 192
 Ala Ala Val Trp Tyr Asp Gly Ser Thr Thr Tyr Ser Pro Asp Ser Val
 50 55 60
 aag ggc cga ttc acc atc tcc aga gac gat tcc aag aac acg ctg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 gcg aga gat agg gtg ggc ctc ttt gac tac tgg ggc cag gga acc ctg 336
 Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg 384
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc 432
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca 480
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc 528
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc 576
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac 624
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

acc aag gtg gac aag aaa gca ggg ccc aaa tct cat cac cat cac cat 672
 Thr Lys Val Asp Lys Lys Ala Gly Pro Lys Ser His His His His His
 210 215 220

cac 675
 His
 225

<210> 58

<211> 225

<212> PRT

<213> Homo sapiens

<223> M1-4H

<400> 58

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Lys
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Ala Val Trp Tyr Asp Gly Ser Thr Thr Tyr Ser Pro Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Gly Pro Lys Ser His His His His His
 210 215 220

His
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 <212> DNA
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 1 5 10 15
 tcc ctg aga ctc tcc tgt gca gcg tct gga ttt acc ttc agt tac tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 ggc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 aca ctt ata acc tat gat gga gat aat aaa tac tat gca gac tcc gtg 192
 Thr Leu Ile Thr Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ctg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 gcg aga gac ggg atc ggg tac ttt gac tat tgg ggc cag gga acc ctg 336
 Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg 384
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc 432

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca 480
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc 528
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc 576
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac 624
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat 672
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

cac 675
 His
 225

<210> 60
 <211> 225
 <212> PRT
 <213> Homo sapiens
 <223> M1-5H

<400> 60
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Thr Leu Ile Thr Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
210 215 220

His
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<210> 61
<211> 675
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (1)..(675)

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tcc ctg aaa ctc tcc tgt gca gcg tct gga ttc acc ttc agt tac tat 96
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
20 25 30
ggc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
gca gct gta tgg tat gat gga agt aac aca tac tct cca gac tcc gtg 192
Ala Ala Val Trp Tyr Asp Gly Ser Asn Thr Tyr Ser Pro Asp Ser Val
50 55 60
aag ggc cga ttc acc atc tcc aga gac gat tcc aag aac acg gtg tat 240
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Val Tyr
65 70 75 80
ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
gcg aga gat agg gtg ggc ctc ttt gac tac tgg ggc cag gga acc ctg 336
Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Thr Leu
100 105 110

gtc acc gtc tcc tca gcc tcc acc aag ggc cca tgc gtc ttc ccc ctg 384
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc 432
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tgc tgg aac tca 480
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc 528
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc 576
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac 624
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat 672
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

cac 675
 His
 225

<210> 62

<211> 225

<212> PRT

<213> Homo sapiens

<223> M1-8H

<400> 62

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Lys
 1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Ala Val Trp Tyr Asp Gly Ser Asn Thr Tyr Ser Pro Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
210 215 220

His
225

<210> 63
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<212> DNA
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<220>
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<220>
<221> CDS
<222> (1) .. (708)

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tcc ctg aga ctc tcc tgt gaa ggc tct gga ttc atc ttc agg aac cat 96
Ser Leu Arg Leu Ser Cys Glu Gly Ser Gly Phe Ile Phe Arg Asn His
20 25 30
cct ata cac tgg gtt cgc cag gct cca gga aaa ggt ctg gag tgg gta 144
Pro Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
tca gtt agt ggt att ggt ggt gac aca tac tat gca gac tcc gtg aag 192
Ser Val Ser Gly Ile Gly Gly Asp Thr Tyr Tyr Ala Asp Ser Val Lys
50 55 60
ggc cga ttc tcc atc tcc aga gac aat gcc aag aac tcc ttg tat ctt 240
Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu
65 70 75 80
caa atg aac agc ctg aga gcc gag gac atg gct gtg tat tac tgt gca 288

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala
85 90 95

aga gaa tat tac tat ggt tgc ggg agt tat cgc gtt gac tac tac tac 336
Arg Glu Tyr Tyr Tyr Gly Ser Gly Ser Tyr Arg Val Asp Tyr Tyr Tyr
100 105 110

tac ggt atg gac gtc tgg ggc caa ggg acc acg gtc acc gtc tcc tca 384
Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120 125

gcc tcc acc aag ggc cca tgc gtc ttc ccc ctg gca ccc tcc tcc aag 432
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
130 135 140

agc acc tct ggg ggc aca gcg gcc ctg ggc tgc ctg gtc aag gac tac 480
Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
145 150 155 160

ttc ccc gaa ccg gtg acg gtg tgc tgg aac tca ggc gcc ctg acc agc 528
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
165 170 175

ggc gtg cac acc ttc ccg gct gtc cta cag tcc tca gga ctc tac tcc 576
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
180 185 190

ctc agc agc gtg gtg acc gtg ccc tcc agc agc ttg ggc acc cag acc 624
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
195 200 205

tac atc tgc aac gtg aat cac aag ccc agc aac acc aag gtg gac aag 672
Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
210 215 220

aaa gca gag ccc aaa tct cat cac cat cac cat cac 708
Lys Ala Glu Pro Lys Ser His His His His His His
225 230 235

<210> 64
<211> 236
<212> PRT
<213> Homo sapiens
<223> M1-10H

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Ser Leu Arg Leu Ser Cys Glu Gly Ser Gly Phe Ile Phe Arg Asn His
20 25 30

Pro Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Val Ser Gly Ile Gly Gly Asp Thr Tyr Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Met Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Glu Tyr Tyr Tyr Gly Ser Gly Ser Tyr Arg Val Asp Tyr Tyr Tyr
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120 125

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
130 135 140

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
145 150 155 160

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
165 170 175

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
180 185 190

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
195 200 205

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
210 215 220

Lys Ala Glu Pro Lys Ser His His His His His His
225 230 235

<210> 65

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<223> M1-21H

<220>

<221> CDS

<222> (1)..(675)

<400> 65

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Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Lys
1 5 10 15

tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt tac tat 96
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
20 25 30

ggc atg cac tgg gtc cgc cag gtt cca ggc aag ggg ctg gag tgg gtg 144
Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

gca gct gtc tgg tat gat gga agt act aca tat tct cca gac tcc gtg 192
Ala Ala Val Trp Tyr Asp Gly Ser Thr Thr Tyr Ser Pro Asp Ser Val
50 55 60

| | |
|---|-----|
| aag ggc cga ttc acc atc tcc aga gac gat tcc aag aac acg ctg tat | 240 |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr | |
| 65 70 75 80 | |
| ctg caa atg agc agc ctg aga gcc gag gac acg gct gtg tat tac tgt | 288 |
| Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys | |
| 85 90 95 | |
| gcg aga gat agg gtg ggc ctc ttt gac tac tgg ggc cag gga acc ctg | 336 |
| Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu | |
| 100 105 110 | |
| gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg | 384 |
| Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu | |
| 115 120 125 | |
| gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc | 432 |
| Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys | |
| 130 135 140 | |
| ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca | 480 |
| Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser | |
| 145 150 155 160 | |
| ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc | 528 |
| Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser | |
| 165 170 175 | |
| tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc | 576 |
| Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser | |
| 180 185 190 | |
| ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac | 624 |
| Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn | |
| 195 200 205 | |
| acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat | 672 |
| Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His | |
| 210 215 220 | |
| cac | 675 |
| His | |
| 225 | |

<210> 66
 <211> 225
 <212> PRT
 <213> Homo sapiens
 <223> M1-21H

<400> 66
 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Lys
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Ala Val Trp Tyr Asp Gly Ser Thr Thr Tyr Ser Pro Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
210 215 220

His
225

<210> 67
<211> 675
<212> DNA
<213> Homo sapiens

<220>
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<222> (1) .. (675)

<400> 67
cag gtg cag ctg gtg cag tct ggg gga ggc gtg gtc cag cct ggg agg 48
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt aac tat 96
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
20 25 30

ggc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gly | Met | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| gca | gct | ata | tgg | tat | gat | gga | agt | aaa | aca | tac | aat | gca | gac | tcc | gtg | 192 | |
| Ala | Ala | Ile | Trp | Tyr | Asp | Gly | Ser | Lys | Thr | Tyr | Asn | Ala | Asp | Ser | Val | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| aag | ggc | cga | ttc | acc | atc | tcc | aga | gac | aat | tcc | aag | aac | acg | ctg | tat | 240 | |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ser | Lys | Asn | Thr | Leu | Tyr | | |
| | 65 | | | | 70 | | | | | 75 | | | | 80 | | | |
| ctg | caa | atg | aac | agc | ctg | aga | gcc | gag | gac | acg | gct | gtg | tat | tac | tgt | 288 | |
| Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | | |
| | | | 85 | | | | | | 90 | | | | | 95 | | | |
| gcg | aga | gat | ggg | ata | ggc | tac | ttt | gac | tac | tgg | ggc | cag | gga | acc | ctg | 336 | |
| Ala | Arg | Asp | Gly | Ile | Gly | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| gtc | acc | gtc | tcc | tca | gcc | tcc | acc | aag | ggc | cca | tcg | gtc | ttc | ccc | ctg | 384 | |
| Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| gca | ccc | tcc | tcc | aag | agc | acc | tct | ggg | ggc | aca | gcg | gcc | ctg | ggc | tgc | 432 | |
| Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| ctg | gtc | aag | gac | tac | ttc | ccc | gaa | ccg | gtg | acg | gtg | tcg | tgg | aac | tca | 480 | |
| Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | | |
| | 145 | | | | 150 | | | | 155 | | | | | 160 | | | |
| ggc | gcc | ctg | acc | agc | ggc | gtg | cac | acc | ttc | ccg | gct | gtc | cta | cag | tcc | 528 | |
| Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| tca | gga | ctc | tac | tcc | ctc | agc | agc | gtg | gtg | acc | gtg | ccc | tcc | agc | agc | 576 | |
| Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| ttg | ggc | acc | cag | acc | tac | atc | tgc | aac | gtg | aat | cac | aag | ccc | agc | aac | 624 | |
| Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| acc | aag | gtg | gac | aag | aaa | gca | gag | ccc | aaa | tct | cat | cac | cat | cac | cat | 672 | |
| Thr | Lys | Val | Asp | Lys | Lys | Ala | Glu | Pro | Lys | Ser | His | His | His | His | His | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| cac | | | | | | | | | | | | | | | | 675 | |
| His | | | | | | | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | | | |

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<211> 225

<212> PRT

<213> Homo sapiens

<223> M1-23H

<400> 68

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| Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Gly | Gly | Val | Val | Gln | Pro | Gly | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ala Ile Trp Tyr Asp Gly Ser Lys Thr Tyr Asn Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220
 His
 225

<210> 69
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<220>
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<400> 69
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 Gln Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

| | |
|---|-----|
| tcc ctg aga ctc tcc tgt gca gcg tct gga ttc acc ttc agt tac tat | 96 |
| Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr | |
| 20 25 30 | |
| ggc atg cac tgg gtc cgc cag gtt cca ggc aag ggg ctg gag tgg gtg | 144 |
| Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val | |
| 35 40 45 | |
| gca gct gtc tgg tat gat gga agt act aca tat cct cca gac tcc gtg | 192 |
| Ala Ala Val Trp Tyr Asp Gly Ser Thr Thr Tyr Pro Pro Asp Ser Val | |
| 50 55 60 | |
| aag ggc cga ttc acc atc tcc aga gac gat tcc aag aac acg ctg tat | 240 |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr | |
| 65 70 75 80 | |
| ctg caa atg aac agc ctg aga gcc gag gac acg gct gtt tat tac tgt | 288 |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys | |
| 85 90 95 | |
| gcg aga gat agg gtg ggc ctc ttt gac tac tgg ggc cag gga acc ctg | 336 |
| Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu | |
| 100 105 110 | |
| gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg | 384 |
| Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu | |
| 115 120 125 | |
| gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc | 432 |
| Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys | |
| 130 135 140 | |
| ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca | 480 |
| Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser | |
| 145 150 155 160 | |
| ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc | 528 |
| Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser | |
| 165 170 175 | |
| tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc | 576 |
| Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser | |
| 180 185 190 | |
| ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac | 624 |
| Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn | |
| 195 200 205 | |
| acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat | 672 |
| Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His | |
| 210 215 220 | |
| cac | 675 |
| His | |
| 225 | |

<210> 70
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 <212> PRT

<213> Homo sapiens

<223> M1-25H

<400> 70

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Ala Val Trp Tyr Asp Gly Ser Thr Thr Tyr Pro Pro Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His

225

<210> 71

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(678)

<220>

<223> M2-11L

<400> 71

| | | | | | | | | | | | | | | | | |
|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----|
| | | | | | | | | | | | | | | | | |
| gaa Glu | ata Ile | gtg Val | atg Met | acg Thr | cag Gln | tct Ser | cca Pro | ggc Gly | acc Thr | ctg Leu | tct Ser | ttg Leu | tct Ser | cca Pro | ggg Gly | 48 |
| | | | | 5 | | | | | 10 | | | | | | | |
| gaa Glu | aga Arg | gcc Ala | 'acc Thr | ctc Leu | tcc Ser | tgc Cys | agg Arg | gcc Ala | agt Ser | cag Gln | ggt Gly | gtt Val | agc Ser | agc Ser | agc Ser | 96 |
| | | | | 20 | | | | | 25 | | | | | | | |
| tac Tyr | tta Leu | gcc Ala | tgg Trp | tac Tyr | cag Gln | cag Gln | aaa Lys | cct Pro | ggc Gly | cag Gln | gct Ala | ccc Pro | agg Arg | ctc Leu | ctc Leu | 144 |
| | | | | 35 | | | | | 40 | | | | | | | |
| atc Ile | tat Tyr | ggt Gly | gca Ala | tcc Ser | agc Ser | agg Arg | gcc Ala | act Thr | ggc Gly | atc Ile | cca Pro | gac Asp | agg Arg | ttc Phe | agt Ser | 192 |
| | | | | 50 | | | | | 55 | | | | | | | |
| ggc Gly | agt Ser | ggg Gly | tct Ser | ggg Gly | aca Thr | gac Asp | ttc Phe | act Thr | ctc Leu | acc Thr | atc Ile | agc Ser | aga Arg | ctg Leu | gag Glu | 240 |
| | | | | 65 | | | | | 70 | | | | | | | |
| cct Pro | gaa Glu | gat Asp | ttt Phe | gca Ala | gtg Val | tat Tyr | tac Tyr | tgt Cys | cag Gln | cag Gln | tat Tyr | ggt Gly | agc Ser | tca Ser | cct Pro | 288 |
| | | | | 85 | | | | | 90 | | | | | | | |
| cca Pro | ttc Phe | act Thr | ttc Phe | ggc Gly | cct Pro | ggg Gly | acc Thr | aaa Lys | gtg Val | gat Asp | atc Ile | aaa Lys | cga Arg | act Thr | gtg Val | 336 |
| | | | | 100 | | | | | 105 | | | | | | | |
| gct Ala | gca Ala | cca Pro | tct Ser | gtc Val | ttc Phe | atc Ile | ttc Phe | ccg Pro | cca Pro | tct Ser | gat Asp | gag Glu | cag Gln | ttg Leu | aga Arg | 384 |
| | | | | 115 | | | | | 120 | | | | | | | |
| tct Ser | gga Gly | act Thr | gcc Ala | tct Ser | gtt Val | gtg Val | tgc Cys | ctg Leu | ctg Leu | aat Asn | aac Asn | ttc Phe | tat Tyr | ccc Pro | aga Arg | 432 |
| | | | | 130 | | | | | 135 | | | | | | | |
| gag Glu | gcc Ala | aaa Lys | gta Val | cag Gln | tgg Trp | aag Lys | gtg Val | gat Asp | aac Asn | gcc Ala | ctc Leu | caa Gln | tcg Ser | ggt Gly | aac Asn | 480 |
| | | | | 145 | | | | | 150 | | | | | | | |
| tcc Ser | cag Gln | gag Glu | agt Ser | gtc Val | aca Thr | gag Glu | cag Gln | gac Asp | agc Ser | aag Lys | gac Asp | agc Ser | acc Thr | tac Tyr | agc Ser | 528 |
| | | | | 165 | | | | | 170 | | | | | | | |
| ctc Leu | agc Ser | agc Ser | acc Thr | ctg Leu | acg Thr | ctg Leu | agc Ser | aaa Lys | gca Ala | gac Asp | tac Tyr | gag Glu | aaa Lys | cac His | aaa Lys | 576 |
| | | | | 180 | | | | | 185 | | | | | | | |
| gtc Val | tac Tyr | gcc Ala | tgc Cys | gaa Glu | gtc Val | acc Thr | cat His | cag Gln | ggc Gly | ctg Leu | agc Ser | tcg Ser | ccc Pro | gtc Val | aca Thr | 624 |
| | | | | 195 | | | | | 200 | | | | | | | |
| aag Lys | agc Ser | ttc Phe | aac Asn | agg Arg | gga Gly | gag Glu | tct Ser | tat Tyr | cca Pro | tat Tyr | gat Asp | gtg Val | cca Pro | gat Asp | tat Tyr | 672 |
| | | | | 210 | | | | | 215 | | | | | | | |
| gcg Ala | agc Ser | | | | | | | | | | | | | | | 678 |

225

<210> 72
 <211> 226
 <212> PRT
 <213> Homo sapiens
 <223> M2-11L

<400> 72

Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Gly Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95

Pro Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val
 100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Arg
 115 120 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 195 200 205

Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220

Ala Ser
 225

<210> 73
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(678)

<220>
 <223> M2-12L

<400> 73

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| Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly | |
| 1 5 10 15 | |
| gaa aga gcc acc ctc tcc tgc agg gcc agt cag ggt gtt agc agc agc | 96 |
| Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Gly Val Ser Ser Ser | |
| 20 25 30 | |
| tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc | 144 |
| Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu | |
| 35 40 45 | |
| atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt | 192 |
| Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser | |
| 50 55 60 | |
| ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc agc cta gag | 240 |
| Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu | |
| 65 70 75 80 | |
| cct gaa gat ttt gca gtg tat tac tgt cag cag tat ggt agc tca cct | 288 |
| Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro | |
| 85 90 95 | |
| ccg tac act ttt ggc cag ggg acc aag ctg gag atc aaa cga act gtg | 336 |
| Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val | |
| 100 105 110 | |
| gct gca cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa | 384 |
| Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys | |
| 115 120 125 | |
| tct gga act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga | 432 |
| Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg | |
| 130 135 140 | |
| gag gcc aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac | 480 |
| Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn | |
| 145 150 155 160 | |
| tcc cag gag agt gtc aca gag cag gac agc aag gac agc acc tac agc | 528 |
| Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser | |
| 165 170 175 | |
| ctc agc agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa | 576 |
| Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys | |
| 180 185 190 | |
| gtc tac gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca | 624 |
| Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr | |
| 195 200 205 | |

aag agc ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat 672
 Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220

gcg agc 678
 Ala Ser
 225

<210> 74
 <211> 226
 <212> PRT
 <213> Homo sapiens
 <223> M2-12L

<400> 74
 Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Gly Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95

Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val
 100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 115 120 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 195 200 205

Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220

Ala Ser
 225

<210> 75
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 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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<400> 75
 gaa ata gtg atg acg cag tct cca ggc acc ctg tct ttg tct cca ggg 48
 Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc agc 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30

tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc 144
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt 192
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

gtc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag 240
 Val Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

cct gaa gat ttt gca gtg tat tac tgt cag cag tat ggt agc tca ttc 288
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Phe
 85 90 95

act ttc ggc cct ggg acc aaa gtg gat atc aaa cga act gtg gct gca 336
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110

cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac 576
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr

| 180 | 185 | 190 | |
|---|-----|-----|-----|
| gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc | | | 624 |
| Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser | | | |
| 195 | 200 | 205 | |
| ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc | | | 672 |
| Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser | | | |
| 210 | 215 | 220 | |
| <210> 76 | | | |
| <211> 224 | | | |
| <212> PRT | | | |
| <213> Homo sapiens | | | |
| <223> M2-16L | | | |
| <400> 76 | | | |
| Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly | | | |
| 1 | 5 | 10 | 15 |
| Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser | | | |
| 20 | 25 | 30 | |
| Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu | | | |
| 35 | 40 | 45 | |
| Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser | | | |
| 50 | 55 | 60 | |
| Val Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu | | | |
| 65 | 70 | 75 | 80 |
| Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Phe | | | |
| 85 | 90 | 95 | |
| Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala | | | |
| 100 | 105 | 110 | |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly | | | |
| 115 | 120 | 125 | |
| Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala | | | |
| 130 | 135 | 140 | |
| Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln | | | |
| 145 | 150 | 155 | 160 |
| Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser | | | |
| 165 | 170 | 175 | |
| Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr | | | |
| 180 | 185 | 190 | |
| Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser | | | |
| 195 | 200 | 205 | |
| Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser | | | |
| 210 | 215 | 220 | |

<210> 77
 <211> 672
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(672)

<220>
 <223> M2-18L

<400> 77
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 Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc acc 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Thr
 20 25 30

tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc 144
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt 192
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag 240
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

cct gaa gat ttt gca gtg tat tac tgt cag cag tat gtt agc tca ttc 288
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Val Ser Ser Phe
 85 90 95

act ttc ggc cct ggg acc aaa gtg gat atc aaa cga act gtg gct gca 336
 Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110

cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac 576
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc 624
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc 672
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 78

<211> 224

<212> PRT

<213> Homo sapiens

<223> M2-18L

<400> 78

Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Thr
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Val Ser Ser Phe
 85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 79
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(678)

<220>
 <223> M2-20L

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 Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc agc 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30
 tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc 144
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 atc tac ggt gca tcc agg agg gcc act ggc atc cca gac agg ttc agt 192
 Ile Tyr Gly Ala Ser Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag 240
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 cct gaa gat ttt gca gtg tat tac tgt cag cag tat ggt agc tca ccc 288
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 atg tac act ttt ggc cag ggg acc aag ctg gag atc aaa cga act gtg 336
 Met Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val
 100 105 110
 gct gca cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa 384
 Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 115 120 125
 tct gga act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga 432
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140
 gag gcc aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac 480
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160
 tcc cag gag agt gtc aca gag cag gac agc aag gac agc acc tac agc 528
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175
 ctc agc agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa 576
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190

gtc tac gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca 624
 Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 195 200 205

aag agc ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat 672
 Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220

gcg agc 678
 Ala Ser
 225

<210> 80
 <211> 226
 <212> PRT
 <213> Homo sapiens
 <223> M2-20L

<400> 80
 Glu Ile Val Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95

Met Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val
 100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 115 120 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 195 200 205

Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220

Ala Ser
225

<210> 81
<211> 672
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(672)

<220>
<223> M2-31L

<400> 81
gaa att gtg ttg acg cag tct cca gcc acc ctg tct ttg tct cca ggg 48
Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15
gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc tac 96
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
20 25 30
tta gcc tgg tac caa cag aaa cct ggc cag gct ccc agg ctc ctc atc 144
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45
tat gat gca tcc aac agg gcc act ggc atc cca gcc agg ttc agt ggc 192
Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60
agt ggg tct ggg aca gac ttc act ctc acc atc agc agc cta gag cct 240
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
65 70 75 80
gaa gat ttt gca gtt tat tac tgt cag cag cgt acg aac tgg cct cgg 288
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Thr Asn Trp Pro Arg
85 90 95
acg ttc ggc caa ggg acc aag gtg gaa atc aaa cga act gtg gct gca 336
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110
cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125
act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140
aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160
gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser

| 165 | | | | | | | | | | 170 | | | | | 175 | | | | | |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| agc | acc | ctg | acg | ctg | agc | aaa | gca | gac | tac | gag | aaa | cac | aaa | gtc | tac | 576 | | | | |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | | | | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | | | | |
| gcc | tgc | gaa | gtc | acc | cat | cag | ggc | ctg | agc | tcg | ccc | gtc | aca | aag | agc | 624 | | | | |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | | | | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | | | | |
| ttc | aac | agg | gga | gag | tct | tat | cca | tat | gat | gtg | cca | gat | tat | gcg | agc | 672 | | | | |
| Phe | Asn | Arg | Gly | Glu | Ser | Tyr | Pro | Tyr | Asp | Val | Pro | Asp | Tyr | Ala | Ser | | | | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | | | | |
| <210> 82 | | | | | | | | | | | | | | | | | | | | |
| <211> 224 | | | | | | | | | | | | | | | | | | | | |
| <212> PRT | | | | | | | | | | | | | | | | | | | | |
| <213> Homo sapiens | | | | | | | | | | | | | | | | | | | | |
| <223> M2-31L | | | | | | | | | | | | | | | | | | | | |
| <400> 82 | | | | | | | | | | | | | | | | | | | | |
| Glu | Ile | Val | Leu | Thr | Gln | Ser | Pro | Ala | Thr | Leu | Ser | Leu | Ser | Pro | Gly | | | | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | | | | |
| Glu | Arg | Ala | Thr | Leu | Ser | Cys | Arg | Ala | Ser | Gln | Ser | Val | Ser | Ser | Tyr | | | | | |
| | | 20 | | | | | 25 | | | | | 30 | | | | | | | | |
| Leu | Ala | Trp | Tyr | Gln | Gln | Lys | Pro | Gly | Gln | Ala | Pro | Arg | Leu | Leu | Ile | | | | | |
| | 35 | | | | | 40 | | | | | | 45 | | | | | | | | |
| Tyr | Asp | Ala | Ser | Asn | Arg | Ala | Thr | Gly | Ile | Pro | Ala | Arg | Phe | Ser | Gly | | | | | |
| | 50 | | | | 55 | | | | | 60 | | | | | | | | | | |
| Ser | Gly | Ser | Gly | Thr | Asp | Phe | Thr | Leu | Thr | Ile | Ser | Ser | Leu | Glu | Pro | | | | | |
| | 65 | | | 70 | | | | | 75 | | | | | 80 | | | | | | |
| Glu | Asp | Phe | Ala | Val | Tyr | Tyr | Cys | Gln | Gln | Arg | Thr | Asn | Trp | Pro | Arg | | | | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | | | | |
| Thr | Phe | Gly | Gln | Gly | Thr | Lys | Val | Glu | Ile | Lys | Arg | Thr | Val | Ala | Ala | | | | | |
| | | 100 | | | | | | 105 | | | | | 110 | | | | | | | |
| Pro | Ser | Val | Phe | Ile | Phe | Pro | Pro | Ser | Asp | Glu | Gln | Leu | Lys | Ser | Gly | | | | | |
| | 115 | | | | | 120 | | | | | | 125 | | | | | | | | |
| Thr | Ala | Ser | Val | Val | Cys | Leu | Leu | Asn | Asn | Phe | Tyr | Pro | Arg | Glu | Ala | | | | | |
| | 130 | | | | 135 | | | | | | 140 | | | | | | | | | |
| Lys | Val | Gln | Trp | Lys | Val | Asp | Asn | Ala | Leu | Gln | Ser | Gly | Asn | Ser | Gln | | | | | |
| 145 | | | | 150 | | | | | | 155 | | | | | 160 | | | | | |
| Glu | Ser | Val | Thr | Glu | Gln | Asp | Ser | Lys | Asp | Ser | Thr | Tyr | Ser | Leu | Ser | | | | | |
| | | | 165 | | | | | 170 | | | | | | 175 | | | | | | |
| Ser | Thr | Leu | Thr | Leu | Ser | Lys | Ala | Asp | Tyr | Glu | Lys | His | Lys | Val | Tyr | | | | | |
| | | 180 | | | | | | 185 | | | | | 190 | | | | | | | |
| Ala | Cys | Glu | Val | Thr | His | Gln | Gly | Leu | Ser | Ser | Pro | Val | Thr | Lys | Ser | | | | | |
| | 195 | | | | | 200 | | | | | | 205 | | | | | | | | |

Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 83
 <211> 672
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(672)

<220>
 <223> M2-32L

<400> 83
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 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc tac 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30
 tta gcc tgg tac caa cag aaa cct ggc cag gct ccc agg ctc ctc atc 144
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 tat gat gca tcc aac agg gcc gct ggc atc cca gcc agg ttc agt ggc 192
 Tyr Asp Ala Ser Asn Arg Ala Ala Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60
 agt ggg tct ggg aca gac ttc act ctc acc atc agc agc cta gag cct 240
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80
 gaa gat ttt gca gtt tat tac tgt cag caa cgt aac aac tgg cct ctc 288
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Asn Asn Trp Pro Leu
 85 90 95
 act ttc ggc gga ggg acc aag gtg gag atc aaa cga act gtg gct gca 336
 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac 576
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc 624
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc 672
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 84

<211> 224

<212> PRT

<213> Homo sapiens

<223> M2-32L

<400> 84

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Asp Ala Ser Asn Arg Ala Ala Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Asn Asn Trp Pro Leu
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser

210

215

220

<210> 85
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(678)

<220>
 <223> M2-33L

<400> 85

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| gaa att gtg ttg acg cag tct cca ggc acc ctg tct ttg tct cca ggg | 48 |
| Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly | |
| 1 5 10 15 | |
| gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc agc | 96 |
| Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser | |
| 20 25 30 | |
| tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ctc ctc | 144 |
| Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu | |
| 35 40 45 | |
| atc tat ggt gca tcc agc agg gcc act ggc atc cca gac agg ttc agt | 192 |
| Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser | |
| 50 55 60 | |
| ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag | 240 |
| Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu | |
| 65 70 75 80 | |
| cct gaa gat ttt gca gtg tat tac tgt cag cag tat ggt agc tca cct | 288 |
| Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro | |
| 85 90 95 | |
| ccg tac act ttt ggc cag ggg acc aag ctg gag atc aaa cga act gtg | 336 |
| Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val | |
| 100 105 110 | |
| gct gca cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa | 384 |
| Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys | |
| 115 120 125 | |
| tct gga act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga | 432 |
| Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg | |
| 130 135 140 | |
| gag gcc aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac | 480 |
| Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn | |
| 145 150 155 160 | |
| tcc cag gag agt gtc aca gag cag gac agc aag gac agc acc tac agc | 528 |
| Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser | |
| 165 170 175 | |

ctc agc agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa 576
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190

gtc tac gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca 624
 Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 195 200 205

aag agc ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat 672
 Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220

gcg agc 678
 Ala Ser
 225

<210> 86
 <211> 226
 <212> PRT
 <213> Homo sapiens
 <223> M2-33L

<400> 86
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95

Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val
 100 105 110

Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 115 120 125

Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 130 135 140

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 145 150 155 160

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 165 170 175

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 180 185 190

Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr

195

200

205

Lys Ser Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr
 210 215 220

Ala Ser
 225

<210> 87
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 <212> DNA
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<220>
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<220>
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<400> 87
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 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc tac 96
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

tta gcc tgg tac caa cag aaa cct ggc cag gct ccc agg ctc ctc atc 144
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

tat gat gca tcc aac agg gcc act ggc atc cca gcc agg ttc agt ggc 192
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

agt ggg tct ggg aca gac ttc act ctc acc atc agc agc cta gag cct 240
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80

gaa gat ttt gca gtt tat tac tgt cag cag cgt acg aac tgg cct cgg 288
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Thr Asn Trp Pro Arg
 85 90 95

acg ttc ggc caa ggg acc aag gtg gaa atc aaa cga act gtg gct gca 336
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga 384
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc 432
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag 480
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln

| | | | | | | | |
|-----------------|---------------------|---------------------|-------------|-----|-----|-----|--|
| 145 | | 150 | | 155 | | 160 | |
| gag agt gtc aca | gag cag gac agc aag | gac agc acc tac agc | ctc agc | 528 | | | |
| Glu Ser Val Thr | Glu Gln Asp Ser Lys | Asp Ser Thr Tyr | Ser Leu Ser | | | | |
| | 165 | 170 | 175 | | | | |
| agc acc ctg acg | ctg agc aaa gca | gac tac gag aaa | cac aaa gtc | tac | 576 | | |
| Ser Thr Leu Thr | Leu Ser Lys Ala | Asp Tyr Glu Lys | His Lys Val | Tyr | | | |
| | 180 | 185 | 190 | | | | |
| gcc tgc gaa gtc | acc cat cag ggc | ctg agc tcg ccc | gtc aca aag | agc | 624 | | |
| Ala Cys Glu Val | Thr His Gln Gly | Leu Ser Ser Pro | Val Thr Lys | Ser | | | |
| | 195 | 200 | 205 | | | | |
| ttc aac agg gga | gag tct tat cca | tat gat gtg cca | gat tat gcg | agc | 672 | | |
| Phe Asn Arg Gly | Glu Ser Tyr Pro | Tyr Asp Val Pro | Asp Tyr Ala | Ser | | | |
| | 210 | 215 | 220 | | | | |

<210> 88
 <211> 224
 <212> PRT
 <213> Homo sapiens
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<400> 88
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 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Thr Asn Trp Pro Arg
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
210 215 220

<210> 89

<211> 672

<212> DNA

<213> Homo sapiens

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<223> M2-35L

<400> 89

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| Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly | |
| 1 5 10 15 | |
| gaa aga gcc acc ctc tcc tgc agg gcc agt cag agt gtt agc agc tac | 96 |
| Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr | |
| 20 25 30 | |
| tta gcc tgg tac caa cag aaa cct ggc cag gct ccc agg ctc ctc atc | 144 |
| Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile | |
| 35 40 45 | |
| tat gat gca tcc aac agg gcc act ggc atc cca gcc agg ttc agt ggc | 192 |
| Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly | |
| 50 55 60 | |
| agt ggg tct ggg aca gac ttc act ctc acc atc agc agc cta gag cct | 240 |
| Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro | |
| 65 70 75 80 | |
| gaa gat ttt gca gtt tat tac tgt cag cag cgt acg aac tgg cct cgg | 288 |
| Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Thr Asn Trp Pro Arg | |
| 85 90 95 | |
| acg ttc ggc caa ggg acc aag gtg gaa atc aaa cga act gtg gct gca | 336 |
| Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala | |
| 100 105 110 | |
| cca tct gtc ttc atc ttc ccg cca tct gat gag cag ttg aaa tct gga | 384 |
| Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly | |
| 115 120 125 | |
| act gcc tct gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc | 432 |
| Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala | |
| 130 135 140 | |
| aaa gta cag tgg aag gtg gat aac gcc ctc caa tcg ggt aac tcc cag | 480 |
| Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln | |
| 145 150 155 160 | |

gag agt gtc aca gag cag gac agc aag gac agc acc tac agc ctc agc 528
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

agc acc ctg acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac 576
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

gcc tgc gaa gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc 624
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

ttc aac agg gga gag tct tat cca tat gat gtg cca gat tat gcg agc 672
 Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
 210 215 220

<210> 90

<211> 224

<212> PRT

<213> Homo sapiens

<223> M2-35L

<400> 90

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro
 65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Thr Asn Trp Pro Arg
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
210 215 220

<210> 91

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(675)

<220>

<223> M2-11H

<400> 91

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| cag | gtg | cag | ctg | gtg | gag | tct | ggg | gga | ggc | gtg | gtc | cag | cct | ggg | agg | 48 |
| Gln | Val | Gln | Leu | Val | Glu | Ser | Gly | Gly | Gly | Val | Val | Gln | Pro | Gly | Arg | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| tcc | ctg | aga | ctc | tcc | tgt | gca | gcg | tct | gga | ttt | acc | ttc | agt | tac | tat | 96 |
| Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Phe | Thr | Phe | Ser | Tyr | Tyr | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| ggc | atg | cac | tgg | gtc | cgc | cag | gct | cca | ggc | aag | ggg | ctg | gag | tgg | gtg | 144 |
| Gly | Met | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val | |
| | | 35 | | | | 40 | | | | | | 45 | | | | |
| aca | ctt | ata | acc | tat | gat | gga | gat | aat | aaa | tac | tat | gca | gac | tcc | gtg | 192 |
| Thr | Leu | Ile | Thr | Tyr | Asp | Gly | Asp | Asn | Lys | Tyr | Tyr | Ala | Asp | Ser | Val | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| aag | ggc | cga | ttc | acc | atc | tcc | aga | gac | aat | tcc | aag | aac | acg | ctg | tat | 240 |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ser | Lys | Asn | Thr | Leu | Tyr | |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | | |
| ctg | caa | atg | aac | agc | ctg | aga | gcc | gag | gac | acg | gct | gtg | tat | tac | tgt | 288 |
| Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | |
| | | | 85 | | | | | 90 | | | | | 95 | | | |
| gcg | aga | gac | ggg | atc | ggg | tac | ttt | gac | tat | tgg | ggc | cag | gga | acc | ctg | 336 |
| Ala | Arg | Asp | Gly | Ile | Gly | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| gtc | acc | gtc | tcc | tca | gcc | tcc | acc | aag | ggc | cca | tcg | gtc | ttc | ccc | ctg | 384 |
| Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | |
| | | | 115 | | | | 120 | | | | | 125 | | | | |
| gca | ccc | tcc | tcc | aag | agc | acc | tct | ggg | ggc | aca | gcg | gcc | ctg | ggc | tgc | 432 |
| Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| ctg | gtc | aag | gac | tac | ttc | ccc | gaa | ccg | gtg | acg | gtg | tcg | tgg | aac | tca | 480 |
| Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | |
| 145 | | | | | 150 | | | | 155 | | | | | 160 | | |

| | | | | | | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 92 | | | | | | | | | | | | | | | |
| Gln | Val | Gln | Leu | Val | Glu | Ser | Gly | Gly | Gly | Val | Val | Gln | Pro | Gly | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Phe | Thr | Phe | Ser | Tyr | Tyr |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Met | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Thr | Leu | Ile | Thr | Tyr | Asp | Gly | Asp | Asn | Lys | Tyr | Tyr | Ala | Asp | Ser | Val |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ser | Lys | Asn | Thr | Leu | Tyr |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ala | Arg | Asp | Gly | Ile | Gly | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser |
| | | | | 165 | | | | | 170 | | | | | 175 | |

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His
 225

<210> 93
 <211> 675
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(675)

<220>
 <223> M2-12H

<400> 93
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 Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val His Pro Gly Arg
 1 5 10 15
 tcc ctg aga ctc tcc tgt gca gcg tct gga ttt acc ttc agt tac tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 ggc atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gaa tgg atg 144
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 aca ctt ata tcc tat gat gga gat aat aaa tac tat gca gac tcc gtg 192
 Thr Leu Ile Ser Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 aag ggc cga ttc acc atc tcc aga gaa aat tcc aag aac acg ctg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 ctg caa atg aac agt ctg aga gcc gag gac acg gct gtg tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 gcg aga gac ggg atc ggg tac ttt gac tat tgg ggc cag gga acc ctg 336
 Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg 384
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc 432
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys

| 130 | 135 | 140 | |
|---|-----|-----|-----|
| ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca | | | 480 |
| Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser | | | |
| 145 | 150 | 155 | 160 |
| ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc | | | 528 |
| Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser | | | |
| | 165 | 170 | 175 |
| tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc | | | 576 |
| Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser | | | |
| | 180 | 185 | 190 |
| ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc agc | | | 624 |
| Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Ser | | | |
| | 195 | 200 | 205 |
| acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat | | | 672 |
| Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His | | | |
| | 210 | 215 | 220 |
| cac | | | 675 |
| His | | | |
| 225 | | | |
| | | | |
| <210> 94 | | | |
| <211> 225 | | | |
| <212> PRT | | | |
| <213> Homo sapiens | | | |
| <223> M2-12H | | | |
| | | | |
| <400> 94 | | | |
| Asp Val Gln Leu Val Glu Ser Gly Gly Gly Val Val His Pro Gly Arg | | | |
| 1 | 5 | 10 | 15 |
| Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr | | | |
| | 20 | 25 | 30 |
| Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met | | | |
| | 35 | 40 | 45 |
| Thr Leu Ile Ser Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val | | | |
| | 50 | 55 | 60 |
| Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Ser Lys Asn Thr Leu Tyr | | | |
| | 65 | 70 | 75 |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys | | | |
| | 85 | 90 | 95 |
| Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu | | | |
| | 100 | 105 | 110 |
| Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu | | | |
| | 115 | 120 | 125 |
| Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys | | | |
| | 130 | 135 | 140 |

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Ser
195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
210 215 220

His
225

<210> 95
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<212> DNA
<213> Homo sapiens

<220>
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Gln Val Gln Leu Val Gln Ser Gly Gly Val Val Gln Pro Gly Lys
1 5 10 15
tcc ctg aga ctc tcc tgt gca gcg tct gga ttc agc ttg agt tac tat 96
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Tyr Tyr
20 25 30
ggc atg cac tgg gtc cgc cag gtt cca ggc aag ggg ctg gag tgg gtg 144
Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
gca gct gtc tgg tat gat gga agt act aga tat tct cca gac tcc gtg 192
Ala Ala Val Trp Tyr Asp Gly Ser Thr Arg Tyr Ser Pro Asp Ser Val
50 55 60
aag ggc cga ttc acc atc tcc aga gac gat tcc aag aac acg ctg tat 240
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
65 70 75 80
ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
gcg aga gat agg gtg ggc ctc ttt gac tac tgg ggc cag gga acc ctg 336
Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg 384
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc 432
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca 480
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc 528
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc 576
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Thr Val Pro Ser Ser Ser
 180 185 190
 ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac 624
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat 672
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220
 cac 675
 His
 225

<210> 96
 <211> 225
 <212> PRT
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 <223> M2-16H

<400> 96
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Tyr Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ala Val Trp Tyr Asp Gly Ser Thr Arg Tyr Ser Pro Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His
 225

<210> 97
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 <213> Homo sapiens

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 <223> M2-18H

<400> 97
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 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Lys
 1 5 10 15

tcc ctg aga ctc tcc tgt gca gcg tct gga ttc agc ttc agt tac tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Tyr Tyr
 20 25 30

ggc atg cac tgg gtc cgc cag gtt cca ggc aag ggg ctg gag tgg gtg 144
 Gly Met His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

gca gct gtc tgg tat gat gga agt act aca tat tct cca gac tcc gtg 192
 Ala Ala Val Trp Tyr Asp Gly Ser Thr Thr Tyr Ser Pro Asp Ser Val
 50 55 60

aag ggc cga ttc acc atc tcc aga gac gat tcc aag aac acg ctg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr
 65 70 75 80

ctg caa atg aac agc ctg aga gcc gag gac acg gct gtg tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

| 85 | | | | | | | | | | 90 | | | | | 95 | | | | | |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| gcg | aga | gat | agg | gtg | ggc | ctc | ttt | gac | tac | tgg | ggc | cag | gga | acc | ctg | 336 | | | | |
| Ala | Arg | Asp | Arg | Val | Gly | Leu | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | | | | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | | | | |
| gtc | acc | gtc | tcc | tca | gcc | tcc | acc | aag | ggc | cca | tcg | gtc | ttc | ccc | ctg | 384 | | | | |
| Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | | | | | |
| | | | 115 | | | | 120 | | | | | 125 | | | | | | | | |
| gca | ccc | tcc | tcc | aag | agc | acc | tct | ggg | ggc | aca | gcg | gcc | ctg | ggc | tgc | 432 | | | | |
| Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | | | | | |
| | | | 130 | | | | 135 | | | | | 140 | | | | | | | | |
| ctg | gtc | aag | gac | tac | ttc | ccc | gaa | ccg | gtg | acg | gtg | tcg | tgg | aac | tca | 480 | | | | |
| Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | | | | | |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | | | | | | |
| ggc | gcc | ctg | acc | agc | ggc | gtg | cac | acc | ttc | ccg | gct | gtc | cta | cag | tcc | 528 | | | | |
| Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | | | | | |
| | | | 165 | | | | | 170 | | | | | 175 | | | | | | | |
| tca | gga | ctc | tac | tcc | ctc | agc | agc | gtg | gtg | acc | gtg | ccc | tcc | agc | agc | 576 | | | | |
| Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | | | | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | | | | |
| ttg | ggc | acc | cag | acc | tac | atc | tgc | aac | gtg | aat | cac | aag | ccc | agc | aac | 624 | | | | |
| Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | | | | | |
| | | | 195 | | | | 200 | | | | | 205 | | | | | | | | |
| acc | aag | gtg | gac | aag | aaa | gca | gag | ccc | aaa | tct | cat | cac | cat | cac | cat | 672 | | | | |
| Thr | Lys | Val | Asp | Lys | Lys | Ala | Glu | Pro | Lys | Ser | His | His | His | His | His | | | | | |
| | | | 210 | | | | 215 | | | | | 220 | | | | | | | | |
| cac | | | | | | | | | | | | | | | 675 | | | | | |
| His | | | | | | | | | | | | | | | | | | | | |
| 225 | | | | | | | | | | | | | | | | | | | | |
| <210> 98 | | | | | | | | | | | | | | | | | | | | |
| <211> 225 | | | | | | | | | | | | | | | | | | | | |
| <212> PRT | | | | | | | | | | | | | | | | | | | | |
| <213> Homo sapiens | | | | | | | | | | | | | | | | | | | | |
| <223> M2-18H | | | | | | | | | | | | | | | | | | | | |
| <400> 98 | | | | | | | | | | | | | | | | | | | | |
| Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Gly | Gly | Val | Val | Gln | Pro | Gly | Lys | | | | | |
| 1 | | | | 5 | | | | 10 | | | | 15 | | | | | | | | |
| Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Phe | Ser | Phe | Ser | Tyr | Tyr | | | | | |
| | | | 20 | | | | 25 | | | | 30 | | | | | | | | | |
| Gly | Met | His | Trp | Val | Arg | Gln | Val | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val | | | | | |
| | | | 35 | | | | 40 | | | | 45 | | | | | | | | | |
| Ala | Ala | Val | Trp | Tyr | Asp | Gly | Ser | Thr | Thr | Tyr | Ser | Pro | Asp | Ser | Val | | | | | |
| | | | 50 | | | | 55 | | | | 60 | | | | | | | | | |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asp | Ser | Lys | Asn | Thr | Leu | Tyr | | | | | |
| 65 | | | | 70 | | | | 75 | | | | 80 | | | | | | | | |

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Arg Val Gly Leu Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220
 His
 225

<210> 99
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 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(675)

<220>
 <223> M2-20H

<400> 99
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 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 tcc ctg agg ctc tcc tgt gca gcc tct gga ttc act ttc agt tac tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 ggt atg cac tgg gtc cgc cag gct cca ggc aag ggg ctg gag tgg gtg 144
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 tca ctt ata aca tat gat gga agg aat aaa tac tac gcc gac tcc gtg 192
 Ser Leu Ile Thr Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

aag ggc cga ttc acc atc tcc aga gag aat tcc aag aac acg ctg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

ctg caa atg aac agc ctg aga act gag gac acg gct gag tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Glu Tyr Tyr Cys
 85 90 95

gcg aga gac ggg atc gga tac ttt gac tac tgg ggc cag gga atc ctg 336
 Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Ile Leu
 100 105 110

gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg 384
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc 432
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

ctg gtg aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aag tca 480
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Lys Ser
 145 150 155 160

ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc 528
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc 576
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

ttg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac 624
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat 672
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

cac 675
 His
 225

<210> 100

<211> 225

<212> PRT

<213> Homo sapiens

<223> M2-20H

<400> 100

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Leu Ile Thr Tyr Asp Gly Arg Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Glu Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Ile Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Lys Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220
 His
 225

<210> 101
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 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 Gln Val Gln Leu Val Glu Ser Gly Gly Val Val Val Gln Pro Gly Arg
 1 5 10 15
 tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acg ttc agt tac tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 ggt ata cac tgg gtc cgc cag gtt cca ggc aag gga cta gag tgg gtg 144
 Gly Ile His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val

| 35 | 40 | 45 | |
|---|-----|-----|-----|
| gca ctt ata tca tac gat gga agc aat aaa tac tac gca gac tcc gtg | | | 192 |
| Ala Leu Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val | | | |
| 50 | 55 | 60 | |
| aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac act ctg tat | | | 240 |
| Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr | | | |
| 65 | 70 | 75 | 80 |
| ctg caa atg aac agc ctg aga gct gag gac acg gct gtg tat tac tgt | | | 288 |
| Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys | | | |
| | 85 | 90 | 95 |
| gcg aga gac tgg atc ggg tac ttt gac tac tgg ggc cag gga acc ctg | | | 336 |
| Ala Arg Asp Trp Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu | | | |
| | 100 | 105 | 110 |
| gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg | | | 384 |
| Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu | | | |
| | 115 | 120 | 125 |
| gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc | | | 432 |
| Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys | | | |
| | 130 | 135 | 140 |
| ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca | | | 480 |
| Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser | | | |
| | 145 | 150 | 155 |
| ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc | | | 528 |
| Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser | | | |
| | 165 | 170 | 175 |
| tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc | | | 576 |
| Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser | | | |
| | 180 | 185 | 190 |
| ctg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac | | | 624 |
| Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn | | | |
| | 195 | 200 | 205 |
| acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat | | | 672 |
| Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His | | | |
| | 210 | 215 | 220 |
| cac | | | 675 |
| His | | | |
| 225 | | | |

<210> 102

<211> 225

<212> PRT

<213> Homo sapiens

<223> M2-31H

<400> 102

Gln Val Gln Leu Val Glu Ser Gly Gly Val Val Val Gln Pro Gly Arg

1

5

10

15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30
 Gly Ile His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Leu Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Trp Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His
225

<210> 103
 <211> 708
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(708)

<220>
 <223> M2-32H

<400> 103
 cag gtg cag ctg gtg cag tct ggg gga ggc ttg gta cat cct ggg ggg 48
 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val His Pro Gly Gly
 1 5 10 15

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| tcc | ctg | aga | ctc | tcc | tgt | gaa | ggc | tct | gga | ttc | atc | ttc | agg | aac | cat | 96 |
| Ser | Leu | Arg | Leu | Ser | Cys | Glu | Gly | Ser | Gly | Phe | Ile | Phe | Arg | Asn | His | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| cct | ata | cac | tgg | gtt | cgc | cag | gct | cca | gga | aaa | ggg | ctg | gag | tgg | gta | 144 |
| Pro | Ile | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| tca | gtt | agt | ggg | att | ggg | ggg | gac | aca | tac | tat | gca | gac | tcc | gtg | aag | 192 |
| Ser | Val | Ser | Gly | Ile | Gly | Gly | Asp | Thr | Tyr | Tyr | Ala | Asp | Ser | Val | Lys | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| ggc | cga | ttc | tcc | atc | tcc | aga | gac | aat | gcc | aag | aac | tcc | ttg | tat | ctt | 240 |
| Gly | Arg | Phe | Ser | Ile | Ser | Arg | Asp | Asn | Ala | Lys | Asn | Ser | Leu | Tyr | Leu | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| caa | atg | aac | agc | ctg | aga | gcc | gag | gac | atg | gct | gtg | tat | tac | tgt | gca | 288 |
| Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Met | Ala | Val | Tyr | Tyr | Cys | Ala | |
| | | | 85 | | | | | 90 | | | | | | 95 | | |
| aga | gaa | tat | tac | tat | ggg | tcg | ggg | agt | tat | cgc | gtt | gac | tac | tac | tac | 336 |
| Arg | Glu | Tyr | Tyr | Tyr | Gly | Ser | Gly | Ser | Tyr | Arg | Val | Asp | Tyr | Tyr | Tyr | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| tac | ggg | atg | gac | gtc | tgg | ggc | caa | ggg | acc | acg | gtc | acc | gtc | tcc | tca | 384 |
| Tyr | Gly | Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| gcc | tcc | acc | aag | ggc | cca | tcg | gtc | ttc | ccc | ctg | gca | ccc | tcc | tcc | aag | 432 |
| Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| agc | acc | tct | ggg | ggc | aca | gcg | gcc | ctg | ggc | tgc | ctg | gtc | aag | gac | tac | 480 |
| Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| ttc | ccc | gaa | ccg | gtg | acg | gtg | tcg | tgg | aac | tca | ggc | gcc | ctg | acc | agc | 528 |
| Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| ggc | gtg | cac | acc | ttc | ccg | gct | gtc | cta | cag | tcc | tca | gga | ctc | tac | tcc | 576 |
| Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| ctc | agc | agc | gtg | gtg | acc | gtg | ccc | tcc | agc | agc | ttg | ggc | acc | cag | acc | 624 |
| Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| tac | atc | tgc | aac | gtg | aat | cac | aag | ccc | agc | aac | acc | aag | gtg | gac | aag | 672 |
| Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| aaa | gca | gag | ccc | aaa | tct | cat | cac | cat | cac | cat | cac | | | | | 708 |
| Lys | Ala | Glu | Pro | Lys | Ser | His | His | His | His | His | His | | | | | |
| 225 | | | | | 230 | | | | | | 235 | | | | | |

<210> 104

<211> 236

<212> PRT

<213> Homo sapiens

<223> M2-32H

<400> 104

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Gly | Gly | Leu | Val | His | Pro | Gly | Gly | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Ser | Leu | Arg | Leu | Ser | Cys | Glu | Gly | Ser | Gly | Phe | Ile | Phe | Arg | Asn | His | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Pro | Ile | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| Ser | Val | Ser | Gly | Ile | Gly | Gly | Asp | Thr | Tyr | Tyr | Ala | Asp | Ser | Val | Lys | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Gly | Arg | Phe | Ser | Ile | Ser | Arg | Asp | Asn | Ala | Lys | Asn | Ser | Leu | Tyr | Leu | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | |
| Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Met | Ala | Val | Tyr | Tyr | Cys | Ala | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| Arg | Glu | Tyr | Tyr | Tyr | Gly | Ser | Gly | Ser | Tyr | Arg | Val | Asp | Tyr | Tyr | Tyr | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Tyr | Gly | Met | Asp | Val | Trp | Gly | Gln | Gly | Thr | Thr | Val | Thr | Val | Ser | Ser | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | Ala | Pro | Ser | Ser | Lys | | |
| | | 130 | | | | 135 | | | | | 140 | | | | | | |
| Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | Leu | Val | Lys | Asp | Tyr | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |
| Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | Gly | Ala | Leu | Thr | Ser | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | Ser | Gly | Leu | Tyr | Ser | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | Leu | Gly | Thr | Gln | Thr | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | Thr | Lys | Val | Asp | Lys | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Lys | Ala | Glu | Pro | Lys | Ser | His | His | His | His | His | His | | | | | | |
| 225 | | | | | 230 | | | | | 235 | | | | | | | |

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<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1) .. (675)

<220>

<223> M2-33H

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| cag | gtg | cag | ctg | gtg | cag | tct | ggg | gga | ggc | gtg | gtc | cag | cct | ggg | agg | 48 |
| Gln | Val | Gln | Leu | Val | Gln | Ser | Gly | Gly | Gly | Val | Val | Gln | Pro | Gly | Arg | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| tcc | ctg | aga | ctc | tcc | tgt | gca | gcg | tct | gga | ttt | acc | ttc | agt | tac | tat | 96 |
| Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Phe | Thr | Phe | Ser | Tyr | Tyr | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| ggc | atg | cac | tgg | gtc | cgc | cag | gct | cca | ggc | aag | ggg | ctg | gaa | tgg | atg | 144 |
| Gly | Met | His | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Met | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| aca | ctt | ata | acc | tat | gat | gga | gat | aat | aaa | tac | tat | gca | gac | tcc | gtg | 192 |
| Thr | Leu | Ile | Thr | Tyr | Asp | Gly | Asp | Asn | Lys | Tyr | Tyr | Ala | Asp | Ser | Val | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| aag | ggc | cga | ttc | acc | atc | tcc | aga | gac | aat | tcc | aag | aac | acg | ctg | tat | 240 |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ser | Lys | Asn | Thr | Leu | Tyr | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| ctg | caa | atg | aac | agt | ctg | aga | gcc | gag | gac | acg | gct | gtg | tat | tac | tgt | 288 |
| Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| gcg | aga | gac | ggg | atc | ggg | tac | ttt | gac | tat | tgg | ggc | cag | gga | acc | ctg | 336 |
| Ala | Arg | Asp | Gly | Ile | Gly | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| gtc | acc | gtc | tcc | tca | gcc | tcc | acc | aag | ggc | cca | tcg | gtc | ttc | ccc | ctg | 384 |
| Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| gca | ccc | tcc | tcc | aag | agc | acc | tct | ggg | ggc | aca | gcg | gcc | ctg | ggc | tgc | 432 |
| Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| ctg | gtc | aag | gac | tac | ttc | ccc | gaa | ccg | gtg | acg | gtg | tcg | tgg | aac | tca | 480 |
| Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| ggc | gcc | ctg | acc | agc | ggc | gtg | cac | acc | ttc | ccg | gct | gtc | cta | cag | tcc | 528 |
| Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| tca | gga | ctc | tac | tcc | ctc | agc | agc | gtg | gtg | acc | gtg | ccc | tcc | agc | agc | 576 |
| Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | |
| | | 180 | | | | | | 185 | | | | | 190 | | | |
| ttg | ggc | acc | cag | acc | tac | atc | tgc | aac | gtg | aat | cac | aag | ccc | agc | aac | 624 |
| Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| acc | aag | gtg | gac | aag | aaa | gca | gag | ccc | aaa | tct | cat | cac | cat | cac | cat | 67 |

<210> 106
 <211> 225
 <212> PRT
 <213> Homo sapiens
 <223> M2-33H

<400> 106

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45

Thr Leu Ile Thr Tyr Asp Gly Asp Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Gly Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His
 225

<210> 107
 <211> 675
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(675)

<220>
 <223> M2-34H

<400> 107

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cag | gtg | cag | ctg | gtg | gag | tct | ggg | gga | ggc | gtg | gtc | cag | cct | ggg | agg | 48 |
| Gln | Val | Gln | Leu | Val | Glu | Ser | Gly | Gly | Gly | Val | Val | Gln | Pro | Gly | Arg | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| tcc | ctg | aga | ctc | tcc | tgt | gca | gcc | tct | gga | ttc | acg | ttc | agt | tac | tat | 96 |
| Ser | Leu | Arg | Leu | Ser | Cys | Ala | Ala | Ser | Gly | Phe | Thr | Phe | Ser | Tyr | Tyr | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| ggc | ata | cac | tgg | gtc | cgc | cag | gtt | cca | ggc | aag | gga | cta | gag | tgg | gtg | 144 |
| Gly | Ile | His | Trp | Val | Arg | Gln | Val | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Val | |
| | | 35 | | | | 40 | | | | | | 45 | | | | |
| gta | ctt | ata | tca | tac | gat | gga | agc | aat | aaa | tac | tac | gca | gac | tcc | gtg | 192 |
| Val | Leu | Ile | Ser | Tyr | Asp | Gly | Ser | Asn | Lys | Tyr | Tyr | Ala | Asp | Ser | Val | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| aag | ggc | cga | ttc | acc | atc | tcc | aga | gac | aat | tcc | aag | aac | act | ctg | tat | 240 |
| Lys | Gly | Arg | Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ser | Lys | Asn | Thr | Leu | Tyr | |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | | |
| ctg | caa | atg | aac | agc | ctg | aga | gct | gag | gac | acg | gct | gtg | tat | tac | tgt | 288 |
| Leu | Gln | Met | Asn | Ser | Leu | Arg | Ala | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | |
| | | | 85 | | | | | 90 | | | | | 95 | | | |
| gcg | aga | gac | tgg | atc | ggg | tac | ttt | gac | tac | tgg | ggc | cag | gga | acc | ctg | 336 |
| Ala | Arg | Asp | Trp | Ile | Gly | Tyr | Phe | Asp | Tyr | Trp | Gly | Gln | Gly | Thr | Leu | |
| | | 100 | | | | | | 105 | | | | | 110 | | | |
| gtc | acc | gtc | tcc | tca | gcc | tcc | acc | aag | ggc | cca | tcg | gtc | ttc | ccc | ctg | 384 |
| Val | Thr | Val | Ser | Ser | Ala | Ser | Thr | Lys | Gly | Pro | Ser | Val | Phe | Pro | Leu | |
| | 115 | | | | | | 120 | | | | | 125 | | | | |
| gca | ccc | tcc | tcc | aag | agc | acc | tct | ggg | ggc | aca | gcg | gcc | ctg | ggc | tgc | 432 |
| Ala | Pro | Ser | Ser | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Ala | Ala | Leu | Gly | Cys | |
| | 130 | | | | | 135 | | | | 140 | | | | | | |
| ctg | gtc | aag | gac | tac | ttc | ccc | gaa | ccg | gtg | acg | gtg | tcg | tgg | aac | tca | 480 |
| Leu | Val | Lys | Asp | Tyr | Phe | Pro | Glu | Pro | Val | Thr | Val | Ser | Trp | Asn | Ser | |
| 145 | | | | | 150 | | | | 155 | | | | | 160 | | |
| ggc | gcc | ctg | acc | agc | ggc | gtg | cac | acc | ttc | ccg | gct | gtc | cta | cag | tcc | 528 |
| Gly | Ala | Leu | Thr | Ser | Gly | Val | His | Thr | Phe | Pro | Ala | Val | Leu | Gln | Ser | |
| | | | | 165 | | | | 170 | | | | | 175 | | | |
| tca | gga | ctc | tac | tcc | ctc | agc | agc | gtg | gtg | acc | gtg | ccc | tcc | agc | agc | 576 |
| Ser | Gly | Leu | Tyr | Ser | Leu | Ser | Ser | Val | Val | Thr | Val | Pro | Ser | Ser | Ser | |
| | | 180 | | | | | | 185 | | | | 190 | | | | |
| ctg | ggc | acc | cag | acc | tac | atc | tgc | aac | gtg | aat | cac | aag | ccc | agc | aac | 624 |
| Leu | Gly | Thr | Gln | Thr | Tyr | Ile | Cys | Asn | Val | Asn | His | Lys | Pro | Ser | Asn | |
| | 195 | | | | | 200 | | | | | | 205 | | | | |
| acc | aag | gtg | gac | aag | aaa | gca | gag | ccc | aaa | tct | cat | cac | cat | cac | cat | 672 |

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

cac
 His
 225

675

<210> 108
 <211> 225
 <212> PRT
 <213> Homo sapiens
 <223> M2-34H

<400> 108

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
 20 25 30

Gly Ile His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Val Leu Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Trp Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

His
 225

<210> 109
 <211> 675
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1) .. (675)

<220>
 <223> M2-35H

<400> 109
 cag gtg cag ctg gtg gag tct ggg gga ggc gtg gtc cag cct ggg agg 48
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acg atc agt tac tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Ile Ser Tyr Tyr
 20 25 30

ggt ata cac tgg gtc cgc cag gtt cca ggc aag gga cta gag tgg gtg 144
 Gly Ile His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

gaa ctt ata tca tac gat gga agc aat aaa tac tac gca gac tcc gtg 192
 Glu Leu Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac act ctg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

ctg caa atg aac agc ctg aga gct gag gac acg gct gtg tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

gcg aga gac tgg atc ggg tac ttt gac tac tgg ggc cag gga acc ctg 336
 Ala Arg Asp Trp Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

gtc acc gtc tcc tca gcc tcc acc aag ggc cca tcg gtc ttc ccc ctg 384
 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

gca ccc tcc tcc aag agc acc tct ggg ggc aca gcg gcc ctg ggc tgc 432
 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

ctg gtc aag gac tac ttc ccc gaa ccg gtg acg gtg tcg tgg aac tca 480
 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

ggc gcc ctg acc agc ggc gtg cac acc ttc ccg gct gtc cta cag tcc 528
 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

tca gga ctc tac tcc ctc agc agc gtg gtg acc gtg ccc tcc agc agc 576
 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

ctg ggc acc cag acc tac atc tgc aac gtg aat cac aag ccc agc aac 624
 Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

acc aag gtg gac aag aaa gca gag ccc aaa tct cat cac cat cac cat 672
 Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His
 210 215 220

cac 675
 His
 225

<210> 110
 <211> 225
 <212> PRT
 <213> Homo sapiens
 <223> M2-35H

<400> 110
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Ile Ser Tyr Tyr
 20 25 30

Gly Ile His Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Glu Leu Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Asp Trp Ile Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Lys Ala Glu Pro Lys Ser His His His His His

210

215

220

His
225

<210> 111
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Figure 2 Kappa Chain

<400> 111
tatttccagc ttggtcctc tagagttaac gatatcaacg tttatctaata cagcaagaga 60
tggaggcttg 70

<210> 112
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Figure 2 Heavy Chain

<400> 112
tgaggttcct tgaccccaact gcagagtact aggcctctga gctactcagt taggtgattg 60
agtagccagt 70